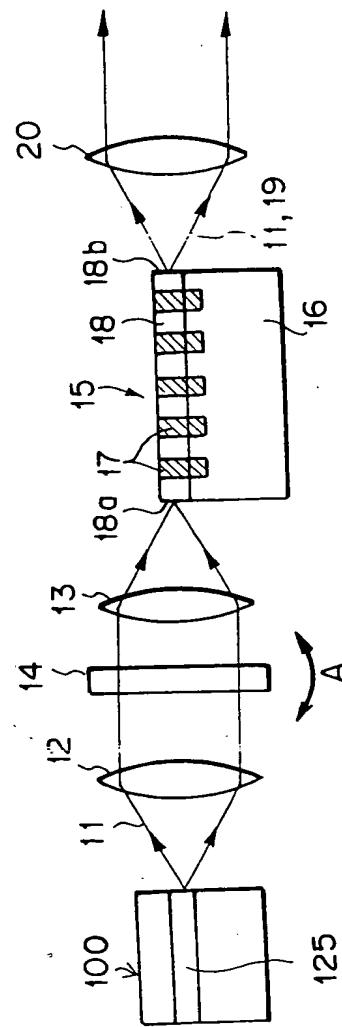


APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

YAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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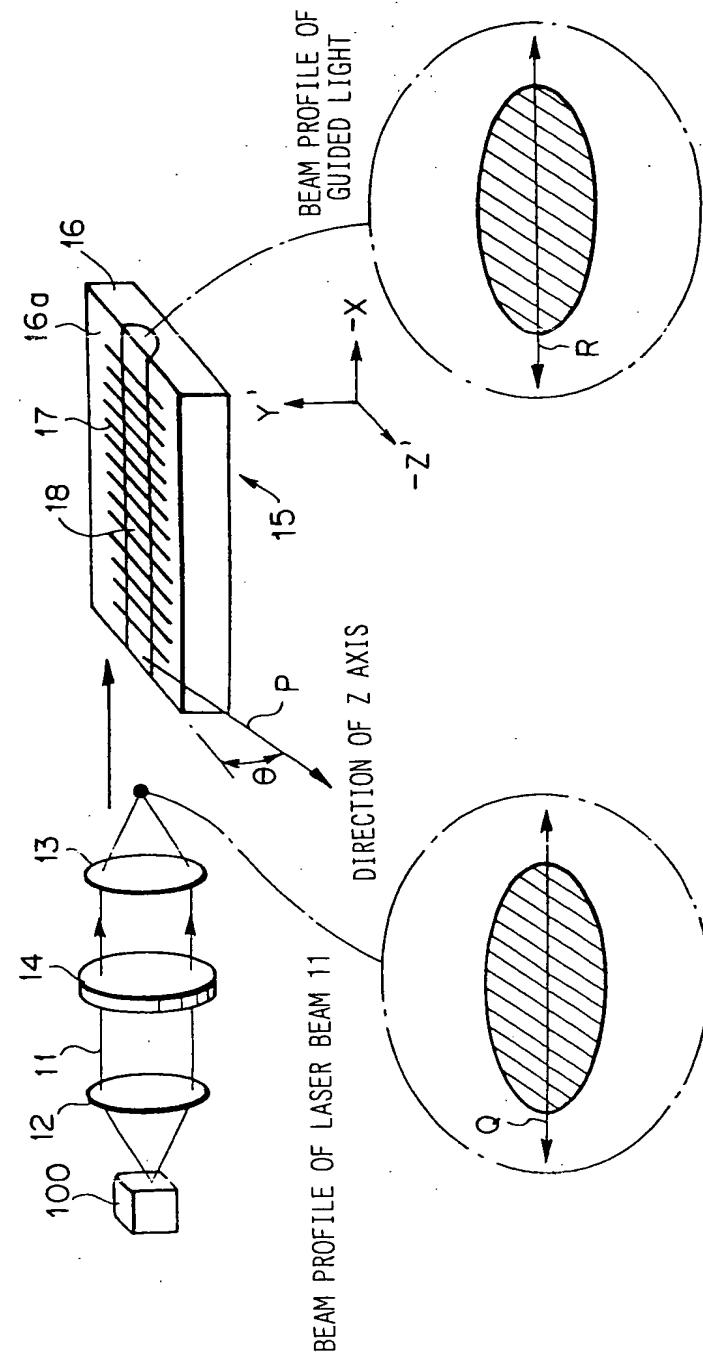
F I G . 1



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA... 064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F 1 G . 2

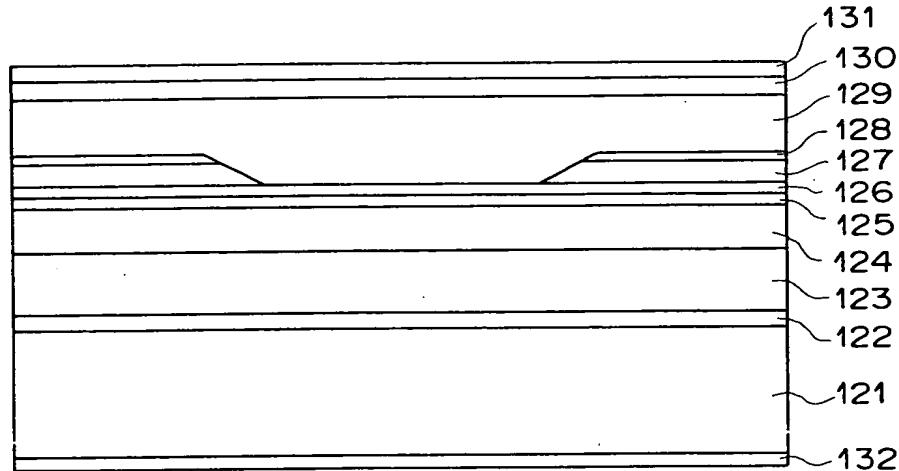


APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

HAYAKAWA..... 064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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F I G . 3

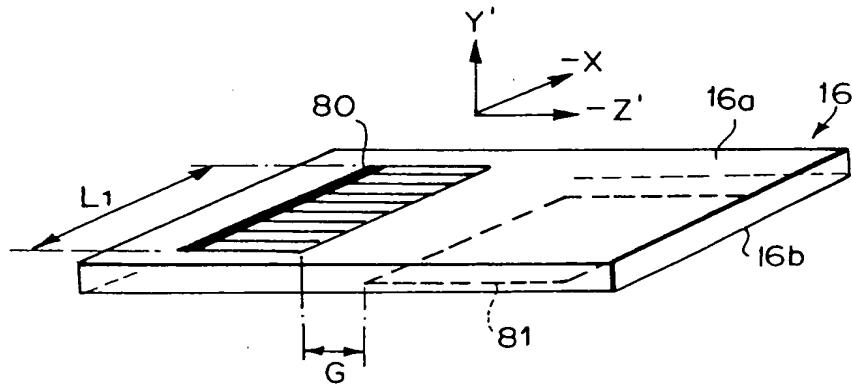
100



APPROVED	O. G. FIG.
BY	
DRAFTSMAN	

YAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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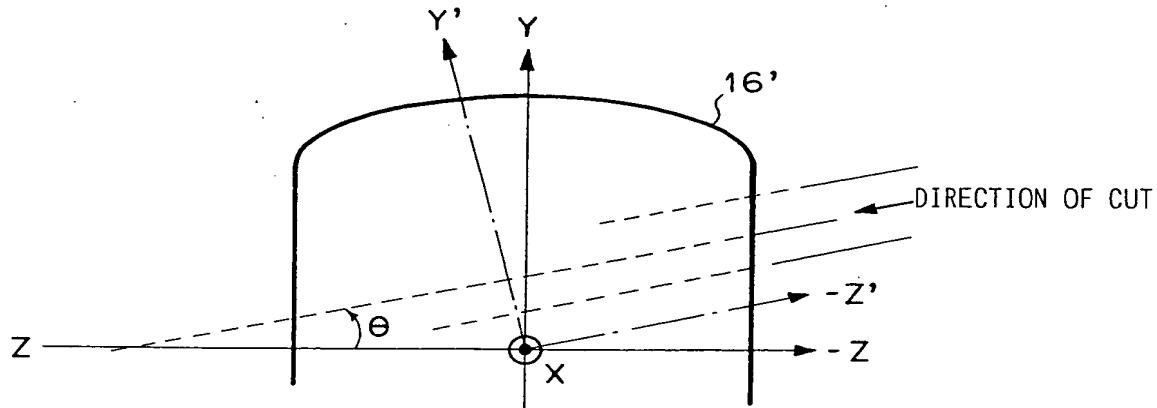
F I G . 4



APPROVED	O.G. FIG.
BY	CLASS SUBCLASG
DRAFTSMAN	

YAKAWA..... 064226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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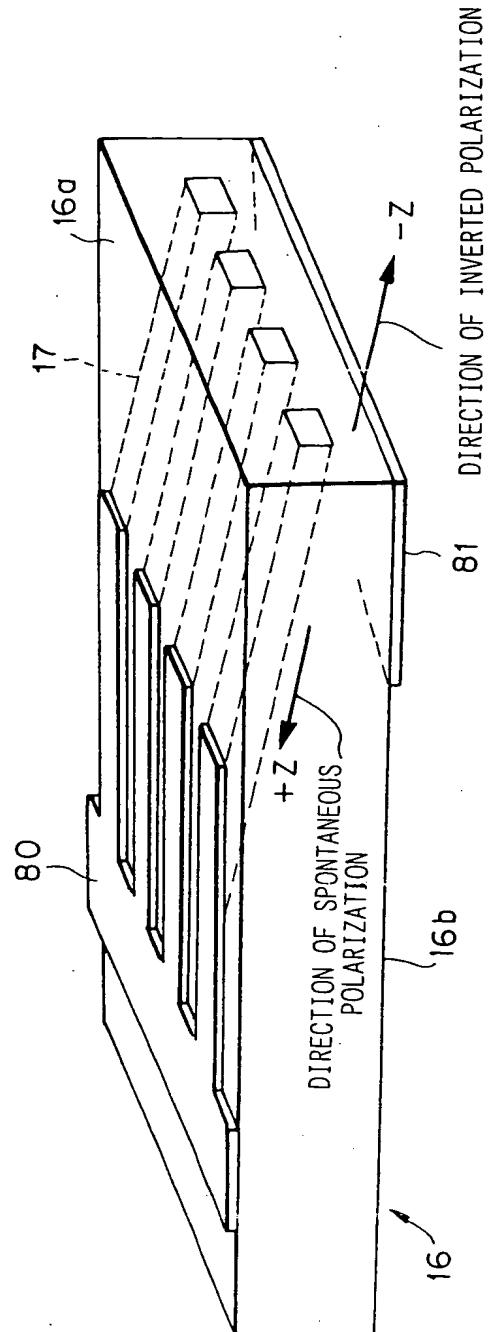
FIG. 5



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Q64226
 HAYAKAWA..... SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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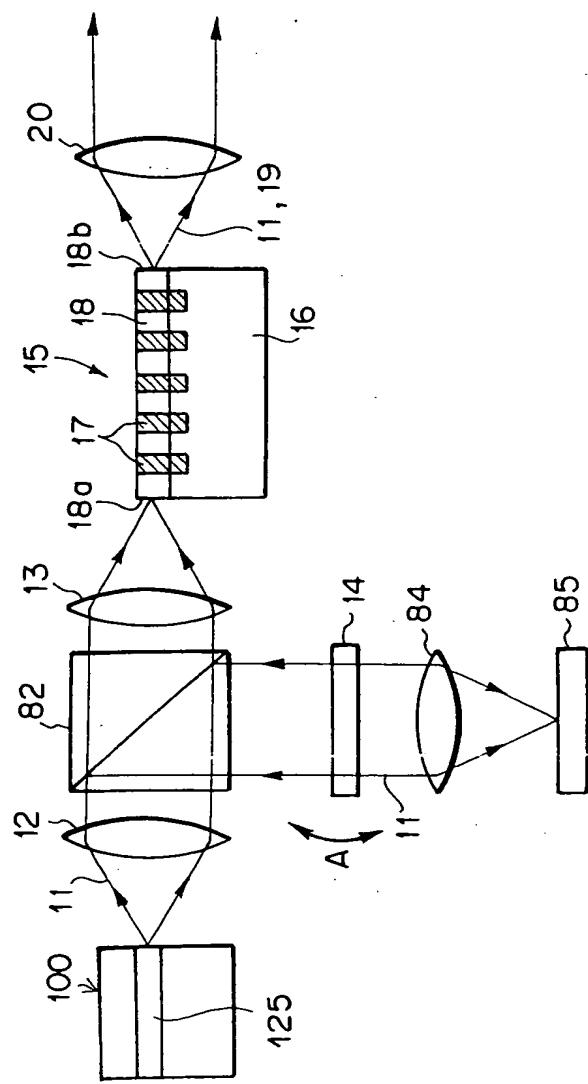
F I G . 6



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLAS

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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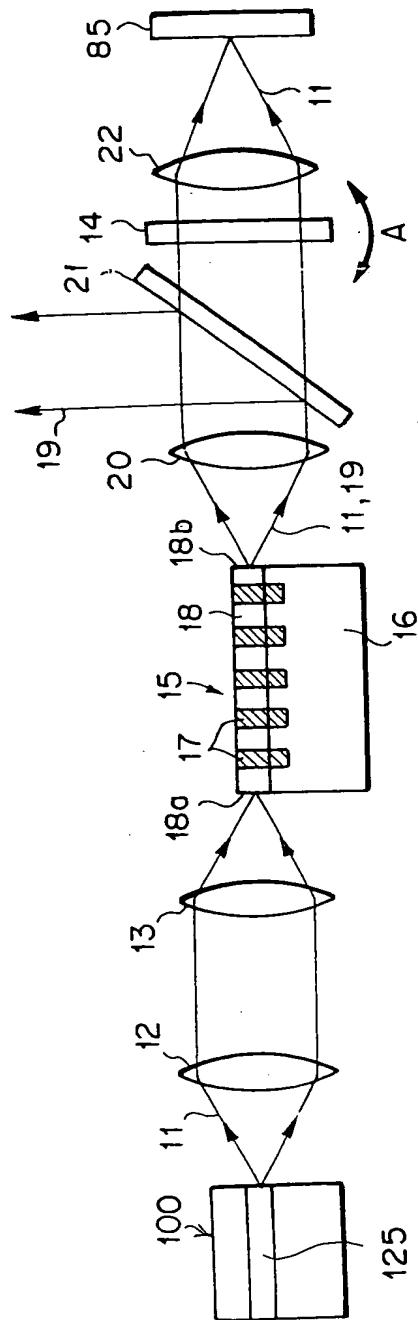
F I G . 7



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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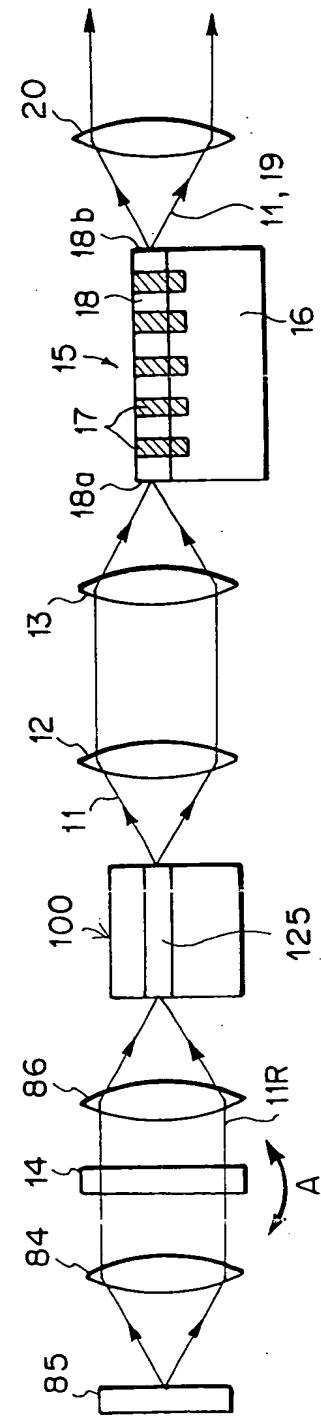
F I G . 8



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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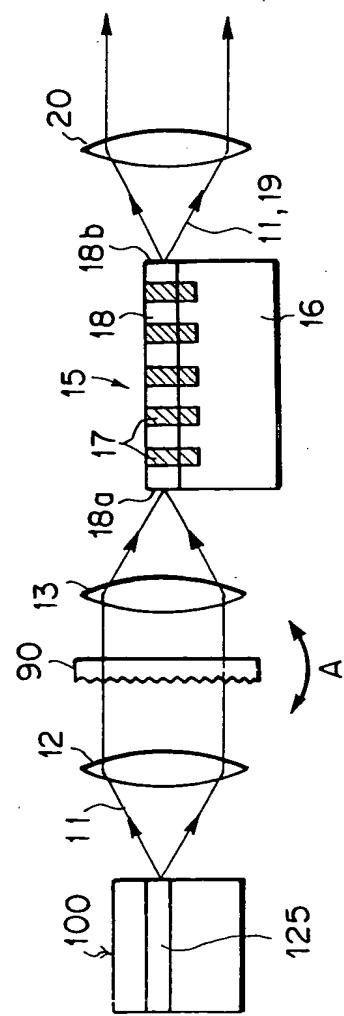
F - I G . 9



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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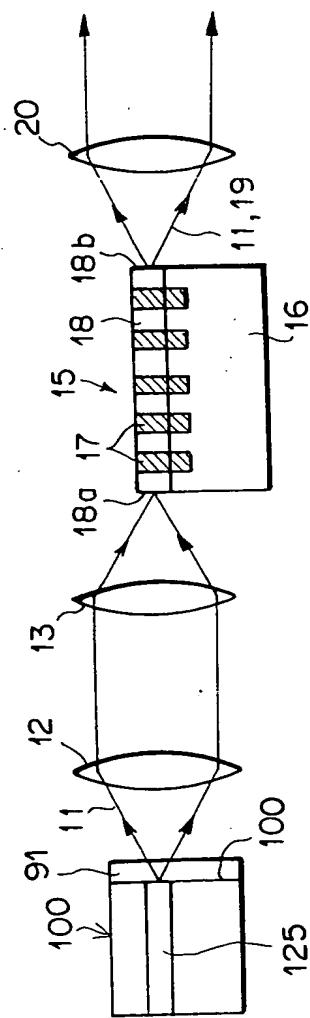
F - G . 10



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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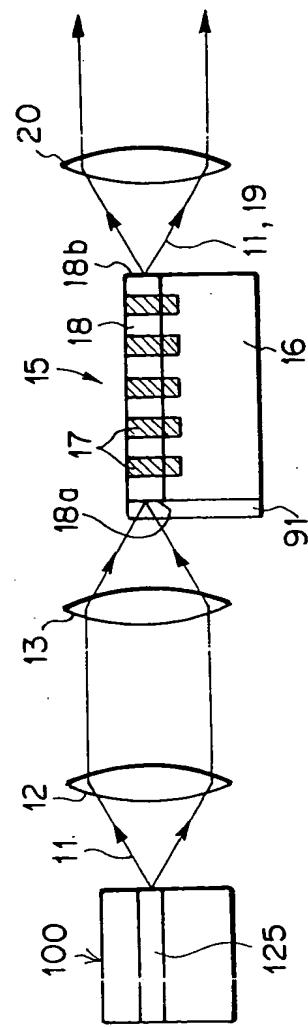
F I G . 11



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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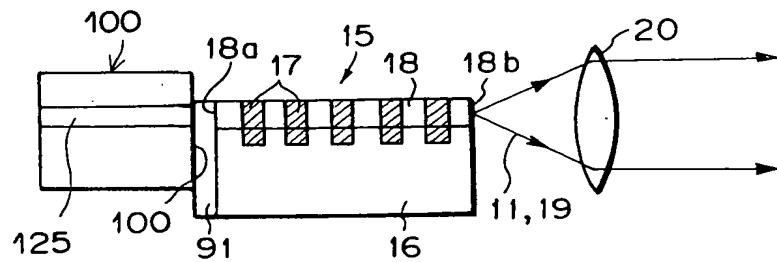
F I G . 12



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

IIYAKAWA.....Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
LENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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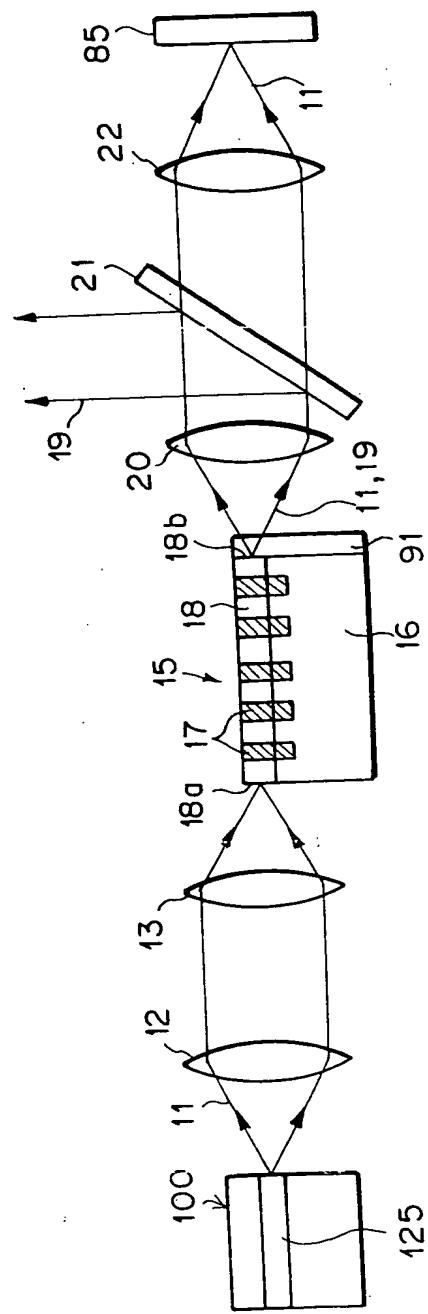
F I G. 13



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

AKAWA..... Q64226
 CONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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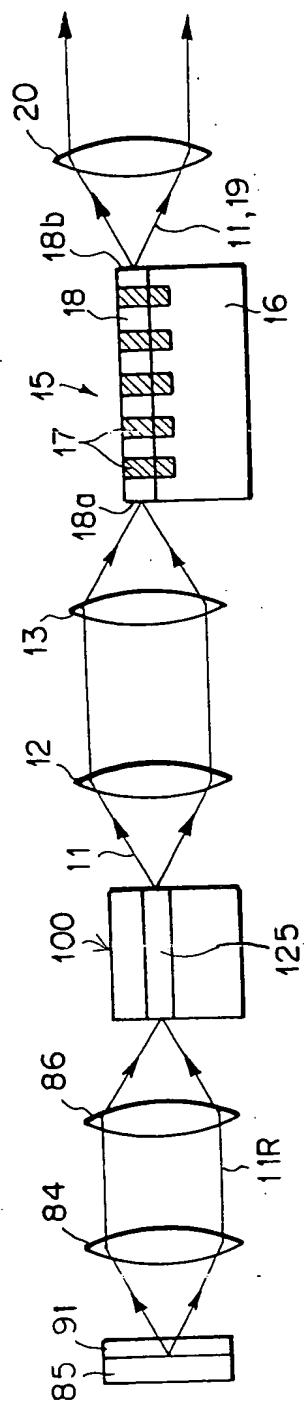
F I G . 14



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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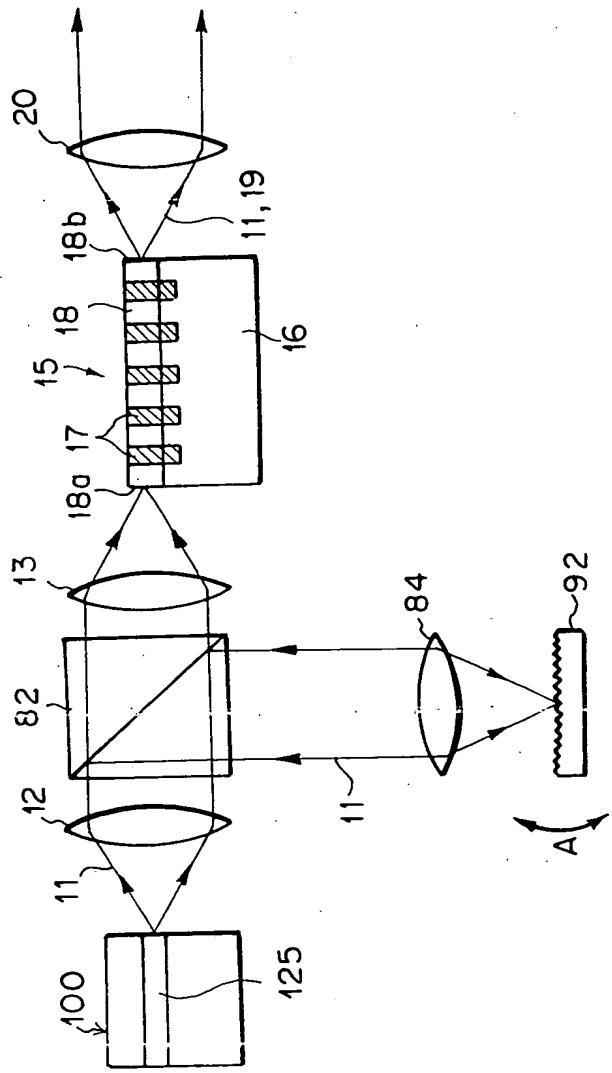
F I G . 15



APPROVED	O. G. F. R.
BY	CLASS SURCLASS
DRAFTSMAN	

YAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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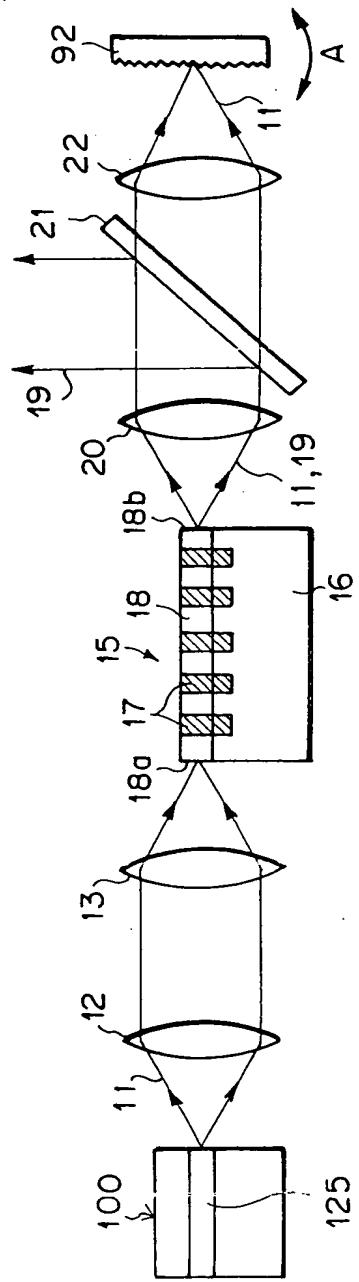
F I G . 16



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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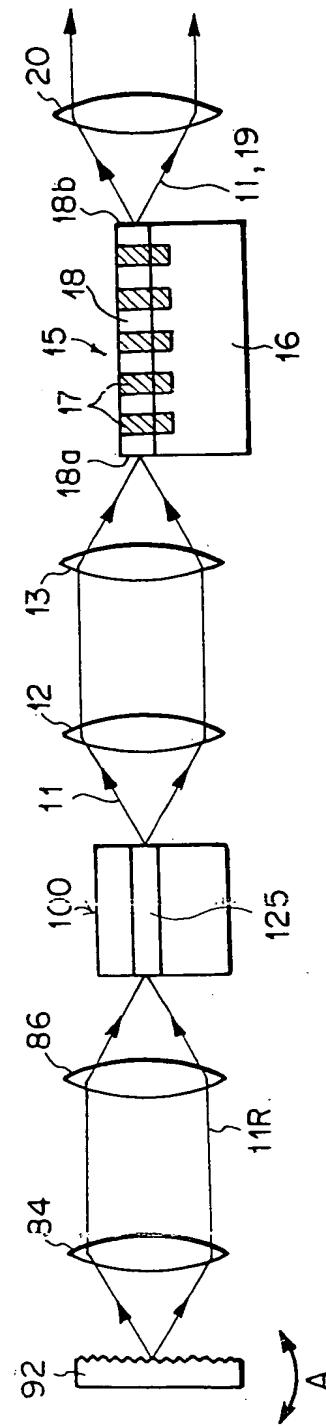
F 1 G . 17



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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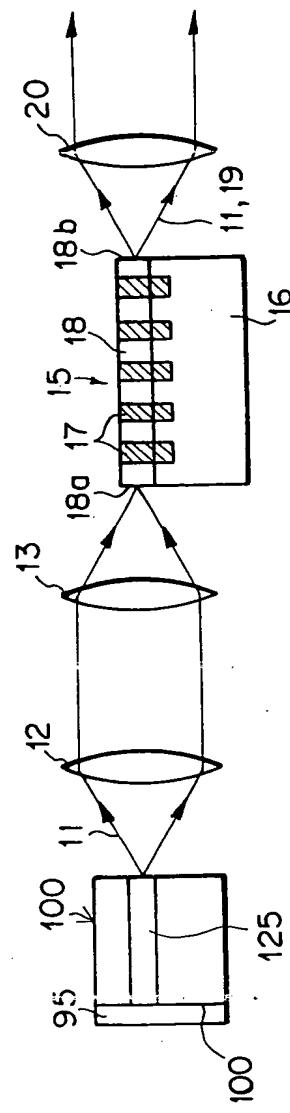
F - I G . 18



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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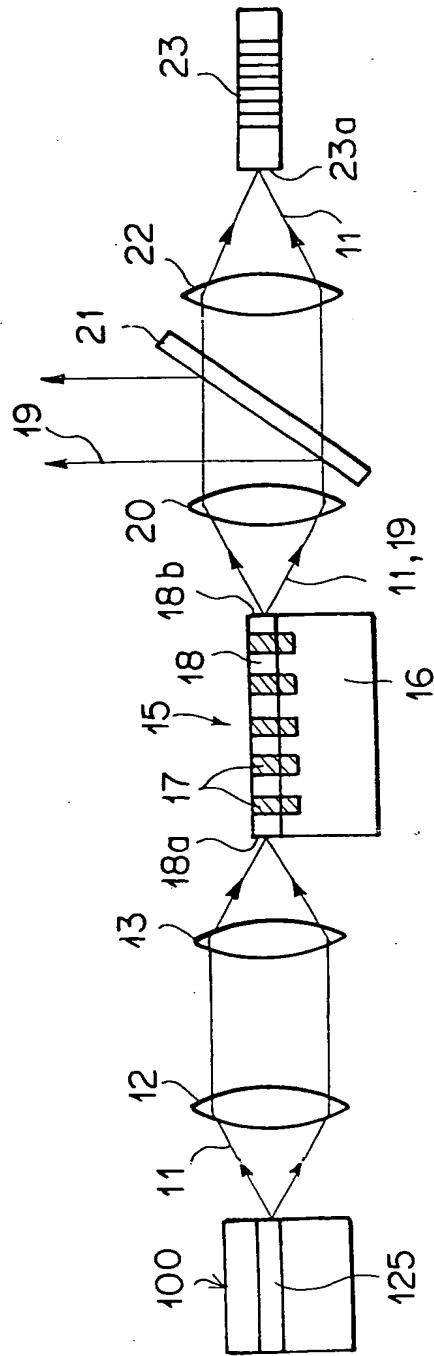
F I G . 19



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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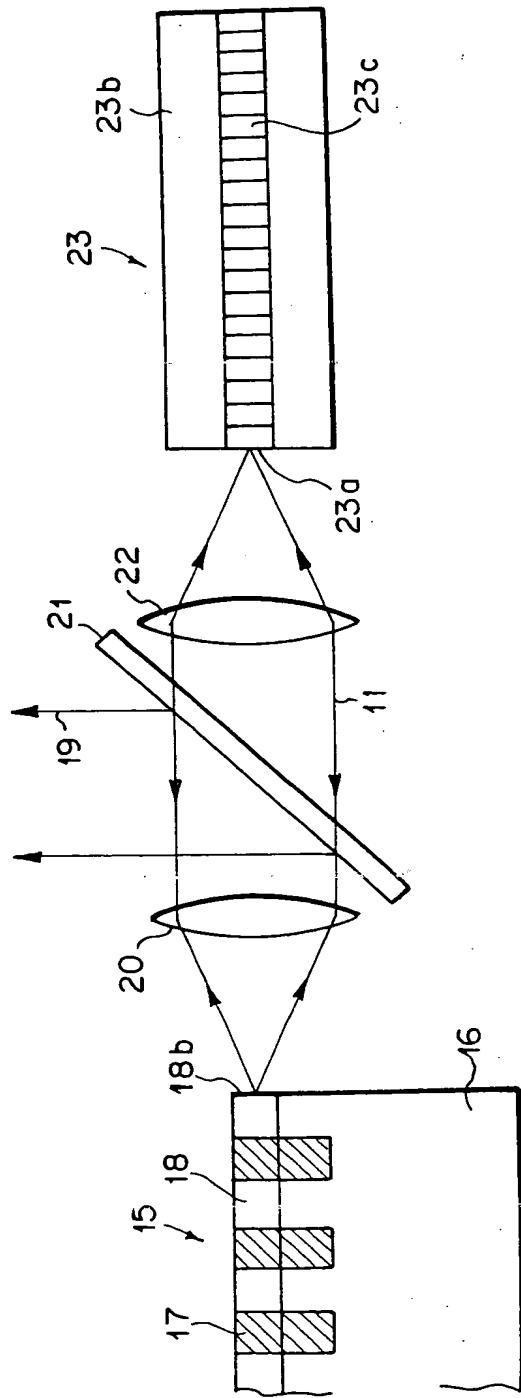
F I G . 20



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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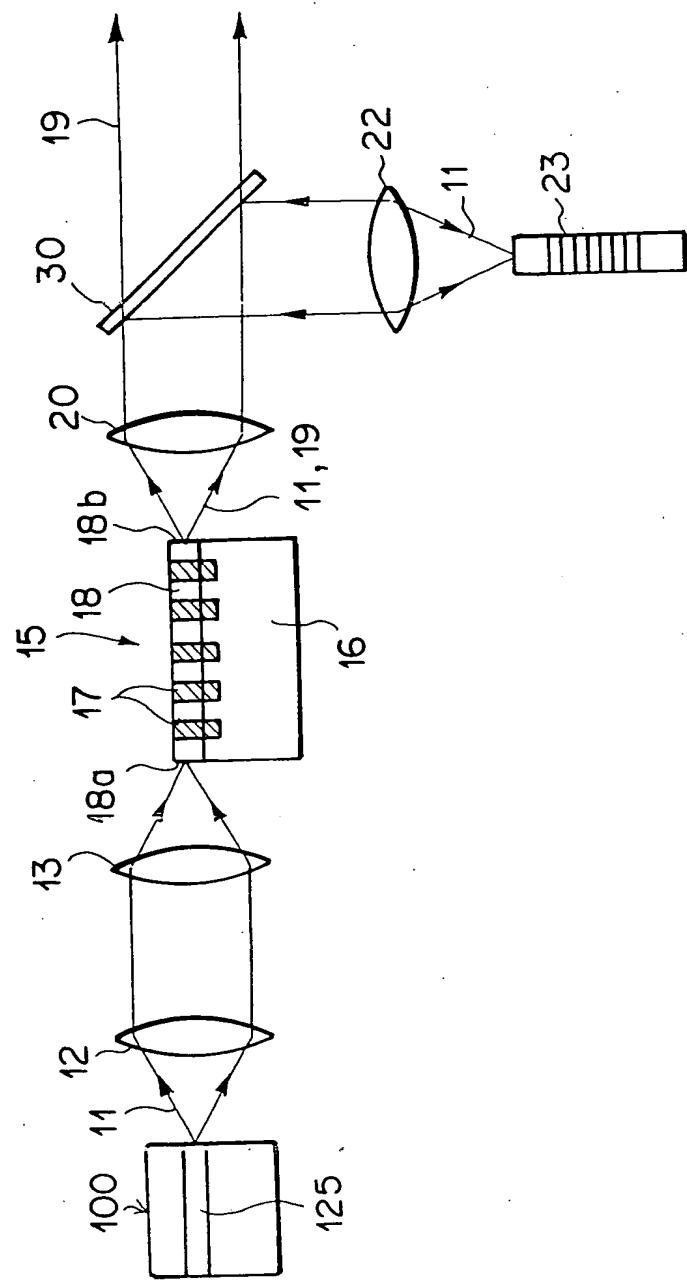
F I G . 21



APPROVED	C.G.
BY	Guillermo
DRAFTSMAN	

HAYAKAWA..... Q64226
MICROELECTRONIC LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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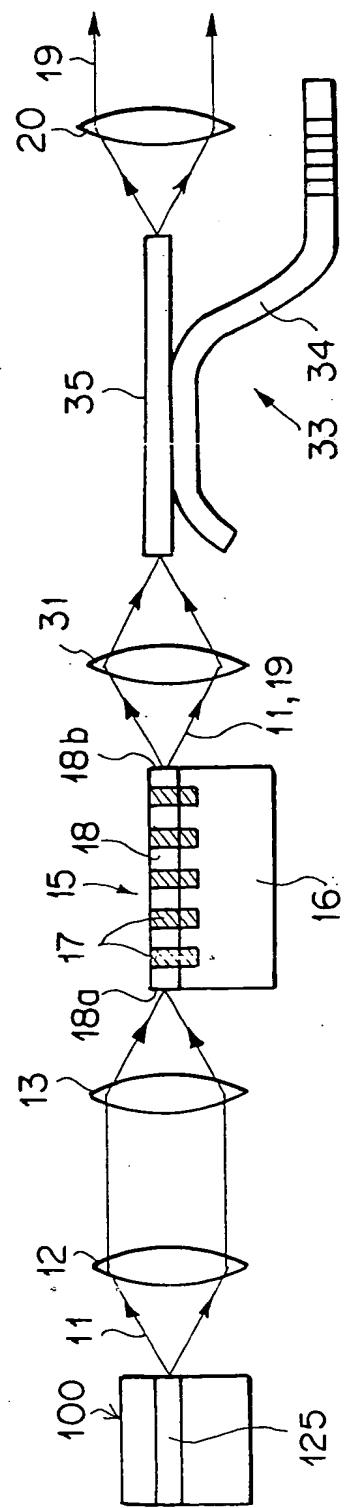
F I G . 22



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

Q64226
 HAYAKAWA SEMICONDUCTOR LASER MODULE HAVING OPTICAL WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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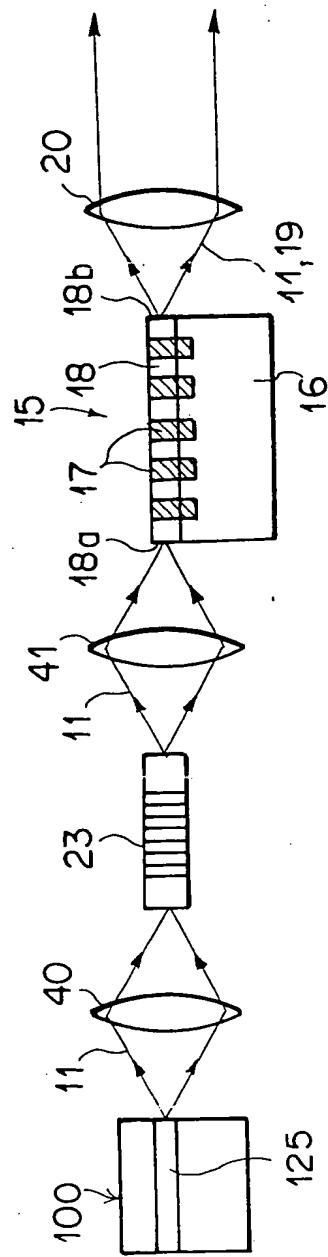
F I G . 23



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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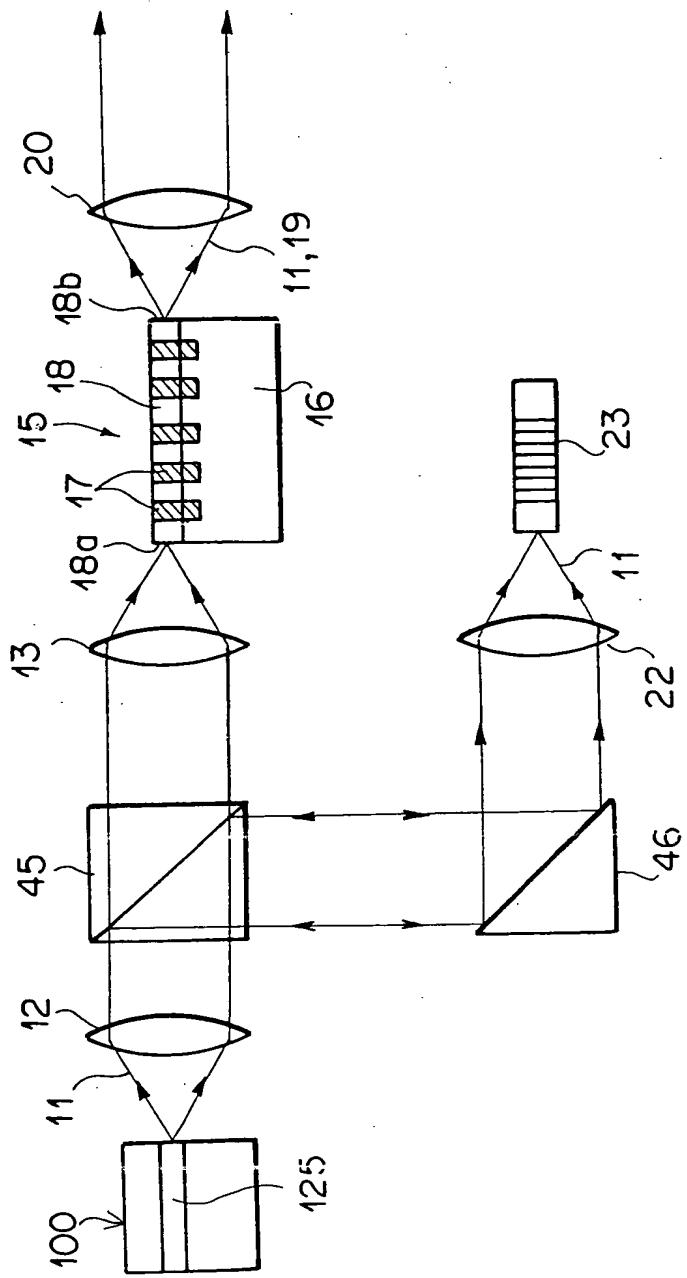
F I G . 24



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

YAKAWA.....064225
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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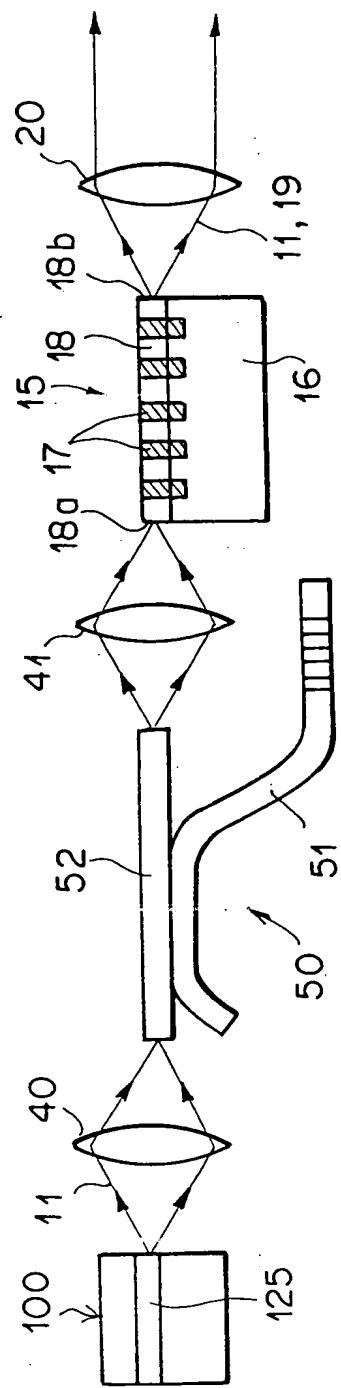
F | G . 25



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
CRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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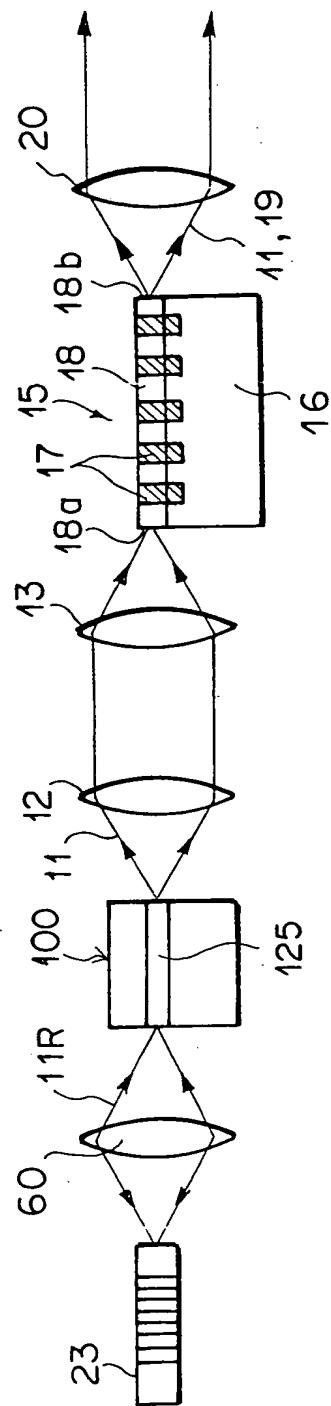
F I G . 26



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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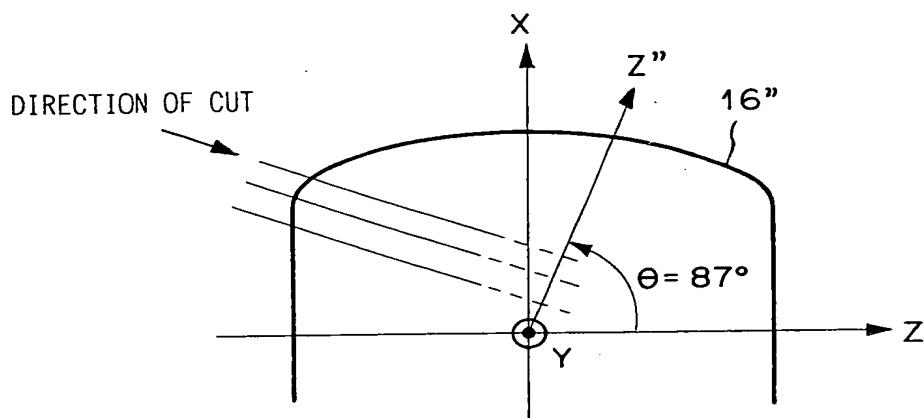
F I G . 27



APPENDIX
BY
DRAFTSMAN

HAYAKAWA..... Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
Filed: April 24, 2001
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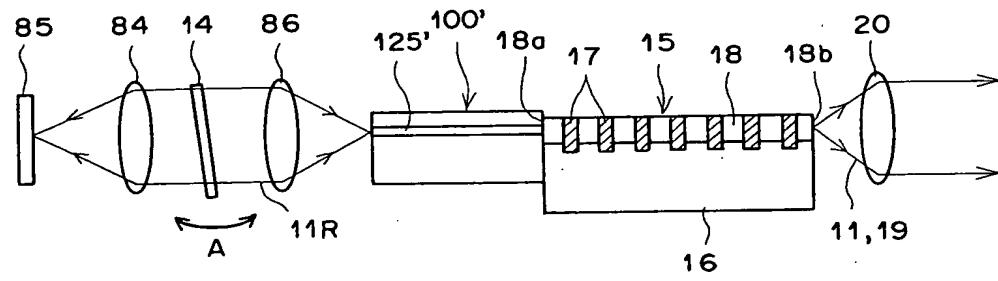
F I G . 28



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA..... Q64226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 Filed: April 24, 2001
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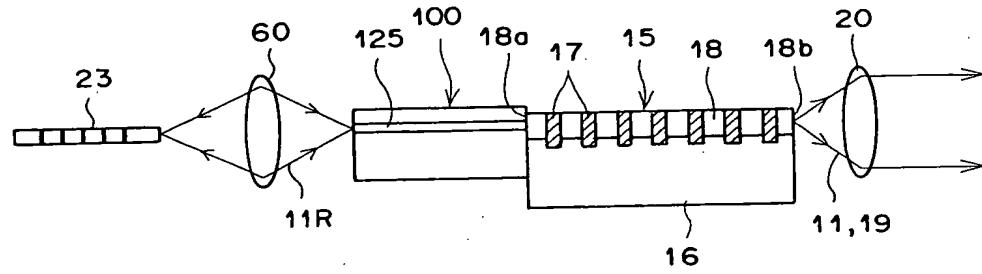
F I G . 29



APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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HAYAKAWA 064226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYER
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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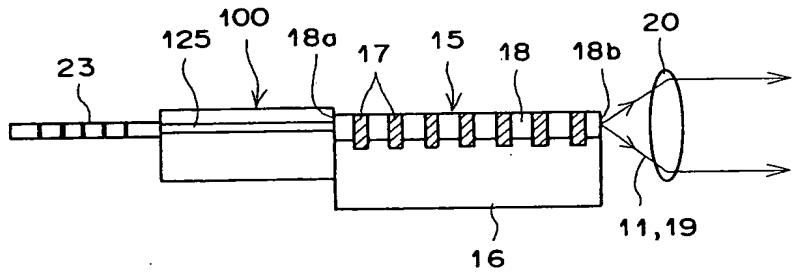
F I G . 30



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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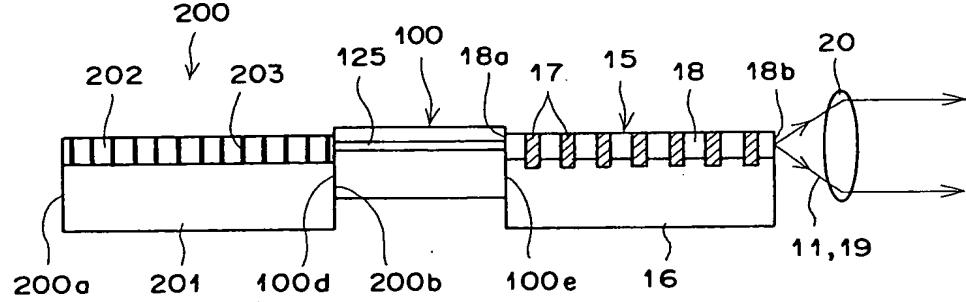
F I G . 31



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Q64226
 HAYAKAWA
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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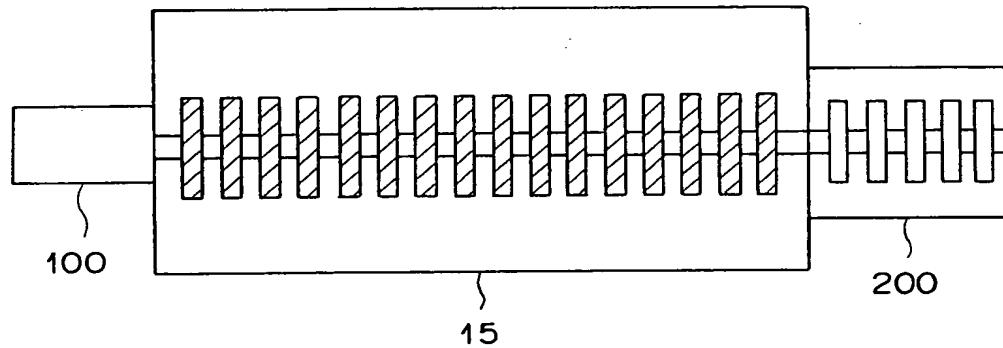
F I G . 32



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

HAYAKAWA..... Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
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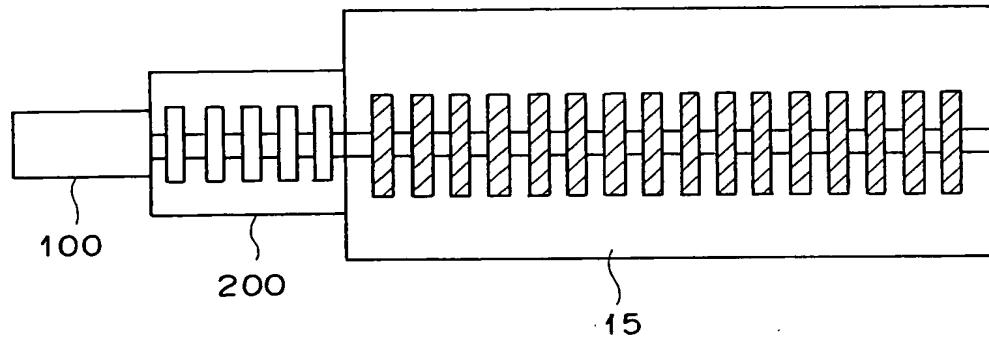
F I G . 33



APPROVED	O.G. F.
BY	CLASS 350
DRAFTSMAN	1

HAYAKAWA..... Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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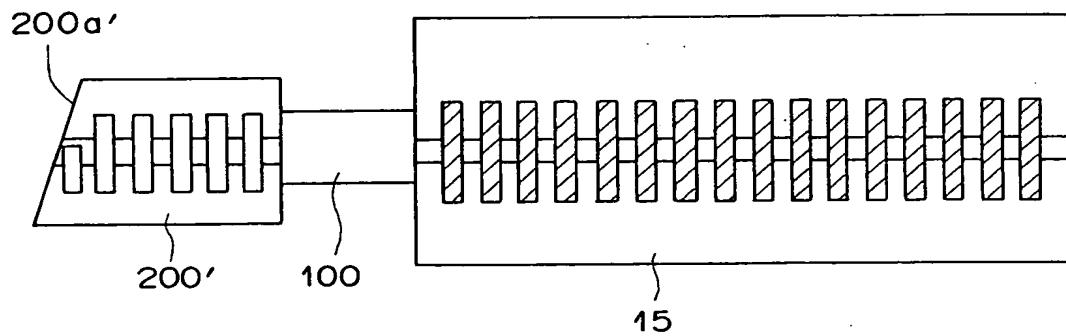
F I G . 34



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	

HAYAKAWA.....Q64226
SEMICONDUCTOR LASER MODULE HAVING OPTICAL
WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
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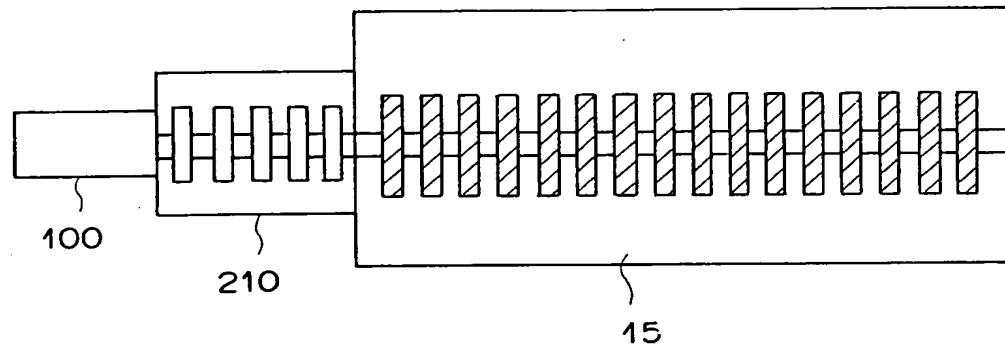
F I G . 35



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

HAYAKAWA.....064226
 SEMICONDUCTOR LASER MODULE HAVING OPTICAL
 WAVELENGTH CONVERSION ELEMENT AND SEMICONDUCTOR
 LASER ELEMENT WHICH INCLUDES QUANTUM-WELL SUBLAYERS
 HAVING DIFFERENT THICKNESSES AND/OR COMPOSITIONS
 Filed: April 24, 2001
 Darryl Mexic.....202-293-7060
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F I G . 36

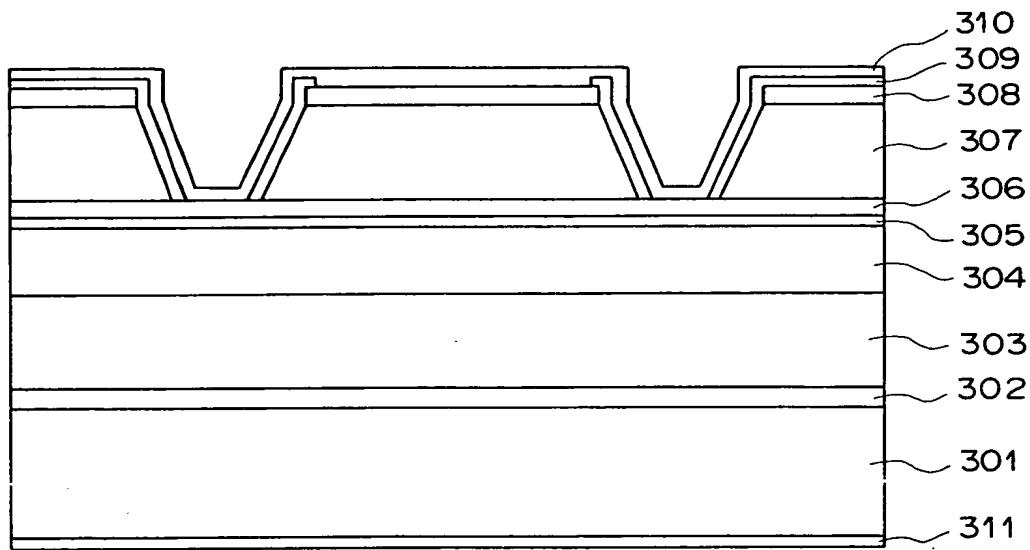


APPROVED BY DRAFTSMAN	O.G. FIG. CLASS SUBCLASS
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SEMICONDUCTOR LASER MODULE HAVING OPTICAL
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F I G . 37

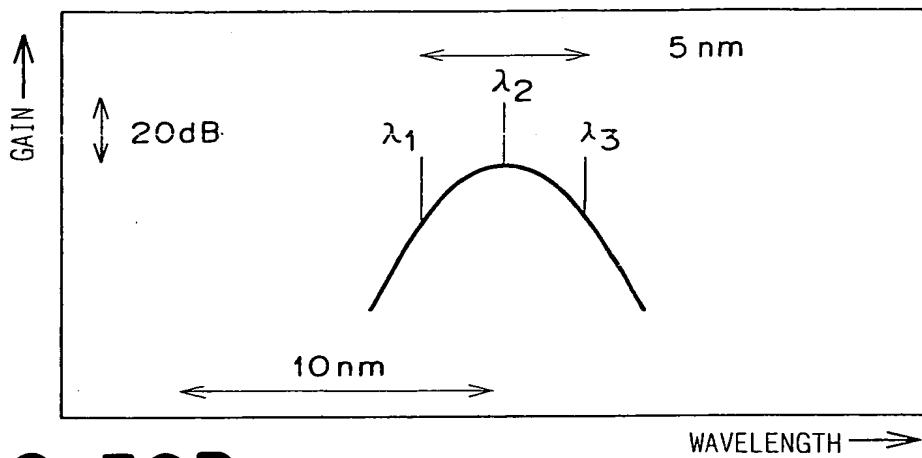
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APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

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 HAYAKAWA..... SEMICONDUCTOR LASER MODULE HAVING OPTICAL
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F I G . 38B

